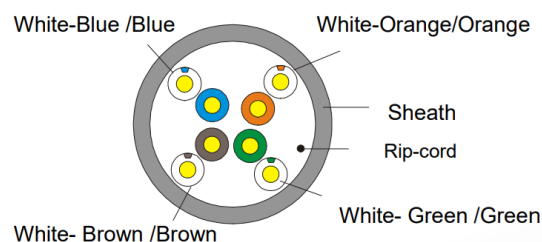


DS-1LN5EUEC7**U/UTP CAT5E PVC 25AWG CPR Eca Cable**

Key Feature

- Stable electrical performance, compliant with ANSI/TIA-568.2-D, IEC61156, ISO/IEC11801.
- Sheath with strong mechanical properties, and high tensile and compressive strength, reducing damage during the project.
- Solid-Bare Copper conductor with less resistance, and better electrical properties and transmission performance.
- Excellent performance in the Fluke 80-meter permanent link test while working continuously at 50°C high temperature.
- Excellent performance in the Fluke 90-meter channel test.
- Compliant with RoHS 2.0, CPR Eca.



Specification

Model	DS-1LN5EUEC7	
Category	Cat.5E	
Reference standard	ISO/IEC11801, ANSI/TIA-568.2-D, RoHS 2.0	
Fire resistance	CPR Eca	
Conductor	Material	Solid-Bare Copper (99.95%)
	Diameter	0.45 ± 0.01 mm
Insulation	Material	HDPE
	Diameter	0.82 ± 0.05 mm
Sheath	Thickness	0.50 ± 0.05 mm
	Diameter	4.7 ± 0.5 mm
	Material	PVC
	Color	Grey
Rip-cord	Yes	
Separator	No	
Sheath physical properties	Before aging	Tensile strength ≥ 13.5 Mpa Elongation $\geq 150\%$
	Aging period	$100^{\circ}\text{C} \times 24\text{h} \times 10\text{d}$
	After aging	Tensile strength ≥ 12.5 Mpa Elongation $\geq 125\%$
	Cold bend	$-20 \pm 2^{\circ}\text{C} \times 4\text{h}$, $8 \times$ cable O.D, no visible cracks
Electrical Characteristics (20°C)	1.0-100.0 MHz impedance	$100 \pm 15 \Omega$
	1.0-100.0 MHz delay skew	≤ 45 ns/100 m
	DC resistance	$\leq 12 \Omega/100$ m
	DC conductor resistance unbalance	$\leq 4.0\%$
	Package dimension	350 mm $\times$ 350 mm $\times$ 200 mm
	Weight	8.4 ± 0.5 kg
	Cable length	305 ± 1.5 m
	Ambient temperature	-20°C to 70°C
	Operating voltage	≤ 57 V

Technical Performance (Fluke 90-meter channel)

Frequency (MHz)	Insertion Loss (dB)	NEXT (dB)	RL (dB)	ACR-N (dB)	ACR-F (dB)	PS NEXT (dB)	PS ACR-N (dB)	PS ACR-F (dB)
1	3.0	60.0	17.0	57.0	57.4	57.0	54.0	54.4
4	4.5	53.5	17.0	49.1	45.4	50.5	46.1	42.4
8	6.3	48.6	17.0	42.3	39.3	45.6	39.3	36.3
10	7.1	47.0	17.0	39.9	37.4	44.0	36.9	34.4
16	9.1	43.6	17.0	34.5	33.3	40.6	31.5	30.3
20	10.2	42.0	17.0	31.8	31.4	39.0	28.8	28.4
25	11.4	40.3	16.0	28.9	29.4	37.3	25.9	26.4
31.25	12.9	38.7	15.1	25.9	27.5	35.7	22.9	24.5
62.5	18.6	33.6	12.1	15.0	21.5	30.6	12.0	18.5
100	24.0	30.1	10.0	6.1	17.4	27.1	3.1	14.4

Available Model

DS-1LN5EUEC7

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